



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it carries a valid OMB control number.

Substitute for form 1449PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number 10/674,484
Filing Date September 30, 2003
First Named Inventor Musser
Art Unit 1744
Examiner Name
Attorney Docket Number P-5749

Examiner Initials	Cite No.	U. S. PATENT DOCUMENTS		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Document Number	Publication Date MM-DD-YYYY		
T203		Numbered Code ¹ if known			
		US-491,198	02-02-1893	Straus	1
		US-824,210	06-26-1906	Sauer	
		US-1,904,222	04-18-1933	Halback	
		US-2,135,239	11-01-1938	Patterson	
		US-2,582,398	01-15-1952	Sieganthal	
		US-2,619,448	11-22-1952	Larsen	
		US-2,858,038	10-28-1958	Earle et al.	
		US-2,920,777	01-12-1960	Cole	
		US-2,947,118	08-02-1960	Earle et al.	
		US-3,176,879	04-18-1962	Mojonnier	
		US-3,449,210	08-10-1969	Rohde	
		US-3,490,501	01-20-1970	Manam et al.	
		US-3,532,605	10-06-1970	Riera	
		US-3,589,983	06-29-1971	Holdarath et al.	
		US-3,702,806	11-14-1972	Oliva	
		US-3,726,764	04-10-1973	Houss et al.	
		US-3,853,712	12-10-1974	Froman et al.	
		US-3,870,602	03-11-1975	Lyman	
		US-4,073,695	02-14-1978	Gleeson	1

Examiner Initials	Cite No.	FOREIGN PATENT DOCUMENTS		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	1*
		Foreign Patent Document	Publication Date MM-DD-YYYY			
		Country Code ² Number ³ Kind Code ⁴ (if known)				

Examiner Signature	Date Considered
--------------------	-----------------

David Reddy 5/27/04
*EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kind Code of USPTO Patent Documents at www.uspto.gov or MPEP 601.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application forms to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22315-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22315-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-785-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1445PTD

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

cf	4
----	---

Complete if Known

Application Number	10/674,484
Filing Date	September 30, 2003
First Named Inventor	Muser
Art Unit	1744
Examiner Name	
Attorney Docket Number	P-5749

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.*	Document Number	Publication Data MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Page, Column, Lines, Where Relevant Passages or Relevant Figures Appear
		Number: Kind Code*			
2/27		US 4,121,976	10-24-1978	Gleeson	
		US 4,144,136	02-13-1979	Corbelli	
		US 4,296,205	10-20-1981	Verma	
		US 4,334,028	06-08-1982	Carver	
		US 4,534,483	08-13-1985	Kassis et al.	
		US 4,640,895	02-03-1987	Davis	
		US 4,734,373	03-29-1988	Bartal	
		US 4,769,858	09-13-1988	Gemm et al.	
		US 4,770,854	08-13-1988	Lyman	
		US 4,851,351	07-25-1989	Akamine	
		US 4,902,286	02-20-1990	Rancoux	
		US 4,912,048	03-27-1990	Smith et al.	
		US 4,927,764	05-22-1990	Lyman et al.	
		US 4,935,371	06-19-1990	Rickdoff	
		US 4,968,623	11-06-1990	Franks	
		US 5,002,199	03-26-1991	Frahm	
		US 5,047,347	09-10-1991	Cline	
		US 5,084,393	01-28-1992	Rogalsky	
		US 5,112,957	05-12-1992	Pollard	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	<i>D. L. Bell</i>	Date Considered	<i>5/27/04</i>
-----------------------	-------------------	--------------------	----------------

EXAMINER: Initial if reference contains a word or claim in conformity with MPPE §80.850. Draw the through citation if not in conformity and not considered initial copy of the form with next communication to applicant. Applicant's unique citation designation number (optional). ^a See Kinds of Goods of USPTO Patent Documents at www.uspto.gov or MPPE §901.64. ^b Enter Office that issued the document, by the two-letter code (WIPO Standard 57.3). ^c For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ^d Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ^e Applicant to place a check mark here if English language Translation is attached.

Collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain a certain benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 USC 1.122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTC-9199 (1-800-786-9199) and select option 2.

Complete if Known

(Use as many sheets as necessary.)

cl	4
----	---

254

U. S. PATENT DOCUMENTS					
Examiner Initials	Chg No.	Document Number Number-Kind Code # of Invention	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Claim Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Wan		US 5,139,952	09-18-1992	Honda et al.	10
		US 5,151,366	09-29-1992	Serkes et al.	
		US 5,210,038	05-11-1993	Jaeger et al.	
		US 5,262,326	11-18-1993	Jaeger et al.	
		US 5,272,084	12-21-1993	O'Connell et al.	
		US 5,310,656	05-10-1994	Bemdt	
		US 5,310,876	05-10-1994	Johansson et al.	
		US 5,391,496	02-21-1995	Kayal et al.	
		US 5,462,874	10-31-1995	Woff et al.	
		US 5,482,854	01-09-1996	O'Leary et al.	
		US 5,565,353	10-15-1996	Klebe et al.	
		US 5,570,802	11-05-1996	Wang et al.	
		US 5,578,491	11-26-1996	Kayal et al.	
		US 5,595,907	01-21-1997	Kayal et al.	
		US 5,618,731	04-08-1997	Stevens et al.	
		US 5,622,865	04-22-1997	Kayal et al.	
		US 5,672,505	09-30-1997	Jones et al.	
		US 5,693,537	12-02-1997	Wilson et al.	
Wan		US 5,695,967	12-09-1997	Kayal et al.	

[illegible]

Date Considered	5-27-04
-----------------	---------

EXAMINER: Indefinite reference concerns. ¹ Whether or not citation is in conformity with WIPO Std. Draw line through citation if not in performance and not completed, indicate copy of file with date of completion. ² Applicant's unique class designation (optional). ³ See Kinds Code of the USPTO. ⁴ Documents, ⁵ 1993-1994, ⁶ 1995-1996, ⁷ 1997-1998, ⁸ 1999-2000, ⁹ 2001-2002, ¹⁰ 2003-2004, ¹¹ 2005-2006, ¹² 2007-2008, ¹³ 2009-2010, ¹⁴ 2011-2012, ¹⁵ 2013-2014, ¹⁶ 2015-2016, ¹⁷ 2017-2018, ¹⁸ 2019-2020, ¹⁹ 2021-2022, ²⁰ 2023-2024, ²¹ 2025-2026, ²² 2027-2028, ²³ 2029-2030, ²⁴ 2031-2032, ²⁵ 2033-2034, ²⁶ 2035-2036, ²⁷ 2037-2038, ²⁸ 2039-2040, ²⁹ 2041-2042, ³⁰ 2043-2044, ³¹ 2045-2046, ³² 2047-2048, ³³ 2049-2050, ³⁴ 2051-2052, ³⁵ 2053-2054, ³⁶ 2055-2056, ³⁷ 2057-2058, ³⁸ 2059-2060, ³⁹ 2061-2062, ⁴⁰ 2063-2064, ⁴¹ 2065-2066, ⁴² 2067-2068, ⁴³ 2069-2070, ⁴⁴ 2071-2072, ⁴⁵ 2073-2074, ⁴⁶ 2075-2076, ⁴⁷ 2077-2078, ⁴⁸ 2079-2080, ⁴⁹ 2081-2082, ⁵⁰ 2083-2084, ⁵¹ 2085-2086, ⁵² 2087-2088, ⁵³ 2089-2090, ⁵⁴ 2091-2092, ⁵⁵ 2093-2094, ⁵⁶ 2095-2096, ⁵⁷ 2097-2098, ⁵⁸ 2099-2100, ⁵⁹ 2101-2102, ⁶⁰ 2103-2104, ⁶¹ 2105-2106, ⁶² 2107-2108, ⁶³ 2109-2110, ⁶⁴ 2111-2112, ⁶⁵ 2113-2114, ⁶⁶ 2115-2116, ⁶⁷ 2117-2118, ⁶⁸ 2119-2120, ⁶⁹ 2121-2122, ⁷⁰ 2123-2124, ⁷¹ 2125-2126, ⁷² 2127-2128, ⁷³ 2129-2130, ⁷⁴ 2131-2132, ⁷⁵ 2133-2134, ⁷⁶ 2135-2136, ⁷⁷ 2137-2138, ⁷⁸ 2139-2140, ⁷⁹ 2141-2142, ⁸⁰ 2143-2144, ⁸¹ 2145-2146, ⁸² 2147-2148, ⁸³ 2149-2150, ⁸⁴ 2151-2152, ⁸⁵ 2153-2154, ⁸⁶ 2155-2156, ⁸⁷ 2157-2158, ⁸⁸ 2159-2160, ⁸⁹ 2161-2162, ⁹⁰ 2163-2164, ⁹¹ 2165-2166, ⁹² 2167-2168, ⁹³ 2169-2170, ⁹⁴ 2171-2172, ⁹⁵ 2173-2174, ⁹⁶ 2175-2176, ⁹⁷ 2177-2178, ⁹⁸ 2179-2180, ⁹⁹ 2181-2182, ¹⁰⁰ 2183-2184, ¹⁰¹ 2185-2186, ¹⁰² 2187-2188, ¹⁰³ 2189-2190, ¹⁰⁴ 2191-2192, ¹⁰⁵ 2193-2194, ¹⁰⁶ 2195-2196, ¹⁰⁷ 2197-2198, ¹⁰⁸ 2199-2200, ¹⁰⁹ 2201-2202, ¹¹⁰ 2203-2204, ¹¹¹ 2205-2206, ¹¹² 2207-2208, ¹¹³ 2209-2210, ¹¹⁴ 2211-2212, ¹¹⁵ 2213-2214, ¹¹⁶ 2215-2216, ¹¹⁷ 2217-2218, ¹¹⁸ 2219-2220, ¹¹⁹ 2221-2222, ¹²⁰ 2223-2224, ¹²¹ 2225-2226, ¹²² 2227-2228, ¹²³ 2229-2230, ¹²⁴ 2231-2232, ¹²⁵ 2233-2234, ¹²⁶ 2235-2236, ¹²⁷ 2237-2238, ¹²⁸ 2239-2240, ¹²⁹ 2241-2242, ¹³⁰ 2243-2244, ¹³¹ 2245-2246, ¹³² 2247-2248, ¹³³ 2249-2250, ¹³⁴ 2251-2252, ¹³⁵ 2253-2254, ¹³⁶ 2255-2256, ¹³⁷ 2257-2258, ¹³⁸ 2259-2260, ¹³⁹ 2261-2262, ¹⁴⁰ 2263-2264, ¹⁴¹ 2265-2266, ¹⁴² 2267-2268, ¹⁴³ 2269-2270, ¹⁴⁴ 2271-2272, ¹⁴⁵ 2273-2274, ¹⁴⁶ 2275-2276, ¹⁴⁷ 2277-2278, ¹⁴⁸ 2279-2280, ¹⁴⁹ 2281-2282, ¹⁵⁰ 2283-2284, ¹⁵¹ 2285-2286, ¹⁵² 2287-2288, ¹⁵³ 2289-2290, ¹⁵⁴ 2291-2292, ¹⁵⁵ 2293-2294, ¹⁵⁶ 2295-2296, ¹⁵⁷ 2297-2298, ¹⁵⁸ 2299-2300, ¹⁵⁹ 2301-2302, ¹⁶⁰ 2303-2304, ¹⁶¹ 2305-2306, ¹⁶² 2307-2308, ¹⁶³ 2309-2310, ¹⁶⁴ 2311-2312, ¹⁶⁵ 2313-2314, ¹⁶⁶ 2315-2316, ¹⁶⁷ 2317-2318, ¹⁶⁸ 2319-2320, ¹⁶⁹ 2321-2322, ¹⁷⁰ 2323-2324, ¹⁷¹ 2325-2326, ¹⁷² 2327-2328, ¹⁷³ 2329-2330, ¹⁷⁴ 2331-2332, ¹⁷⁵ 2333-2334, ¹⁷⁶ 2335-2336, ¹⁷⁷ 2337-2338, ¹⁷⁸ 2339-2340, ¹⁷⁹ 2341-2342, ¹⁸⁰ 2343-2344, ¹⁸¹ 2345-2346, ¹⁸² 2347-2348, ¹⁸³ 2349-2350, ¹⁸⁴ 2351-2352, ¹⁸⁵ 2353-2354, ¹⁸⁶ 2355-2356, ¹⁸⁷ 2357-2358, ¹⁸⁸ 2359-2360, ¹⁸⁹ 2361-2362, ¹⁹⁰ 2363-2364, ¹⁹¹ 2365-2366, ¹⁹² 2367-2368, ¹⁹³ 2369-2370, ¹⁹⁴ 2371-2372, ¹⁹⁵ 2373-2374, ¹⁹⁶ 2375-2376, ¹⁹⁷ 2377-2378, ¹⁹⁸ 2379-2380, ¹⁹⁹ 2381-2382, ²⁰⁰ 2383-2384, ²⁰¹ 2385-2386, ²⁰² 2387-2388, ²⁰³ 2389-2390, ²⁰⁴ 2391-2392, ²⁰⁵ 2393-2394, ²⁰⁶ 2395-2396, ²⁰⁷ 2397-2398, ²⁰⁸ 2399-2400, ²⁰⁹ 2401-2402,

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which it is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or any suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/674,484
Filing Date	September 30, 2003
First Named Inventor	Muser
Art Unit	1744
Examiner Name	
Attorney Docket Number	P-5749

Sheet 4 of 4

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ¹ (if known)			
DPR	US-	6,716,798	02-10-1998	Monthony et al.	10
	US-	5,793,275	06-09-1998	Nagels et al.	
	US-	5,766,936	06-18-1998	Kayal et al.	
	US-	5,783,440	07-21-1998	Stevens	
	US-	5,801,054	09-01-1998	Kiel et al.	
	US-	5,858,310	01-12-1999	Jackson et al.	
	US-	5,924,583	07-20-1999	Stevens et al.	
	US-	5,935,845	08-10-1999	Koontz	
	US-	5,939,314	08-17-1999	Koontz	
	US-	6,056,924	05-02-2000	Jackson et al.	
DPR	US-	6,095,356	08-01-2000	Rits	6
	US-	6,114,165	09-05-2000	Cai et al.	
	US-	6,150,159	11-21-2000	Fry	
	US-	6,210,959	04-03-2001	Lodri et al.	
	US-	Das 379,521	05-27-1997	Stevens et al.	
	US-	Das 379,520	05-27-1997	Stevens et al.	
	US-	Das 272,602	02-14-1984	Gregory	
	US-				
	US-				
	US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	*
DPR	+	Country Code ² Number ³ Kind Code ⁴ (if known) WO 96/00780	-	-	-	

Examiner
Signature

David Reddy

Date
Considered

5/27/04

*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). ² See Kind Code of USPTO Patent Documents at 3000.0220.002 or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST-18 if possible. *Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.57 and 1.58. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments or the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-6199 (1-800-785-6199) and select option 2.